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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-07-01-02 **Date: 10-07-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC road at Allalsandra cross roads in ward No.04
Agency	:	Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-07-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

Note:
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Prepared by
Harshitha

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-07-01-02 **Date: 04-07-2017**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC road at Allalsandra cross roads in ward No.04

Agency : Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/84/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-07-17

Sample ID No : 2017-07-01-02/01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 03-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.21	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.1	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	230 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-07-03-01**

Date: 07-07-17

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC road at Allalsandra cross roads in ward No.04

Agency : Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/84/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-17

Sample ID No : 2017-07-03-01/01

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 03/07/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.11	100.49	1.978	4430	92.7	20.9	19.5	24.3
2	Cover Slab-2	75.25	100.51	1.957	4447	97.1	21.8	20.3	25.4
3	Cover Slab-3	75.08	100.51	1.938	4426	94.5	21.3	19.9	24.8

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-07-01-02** **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC road at Allalsandra cross roads in ward No.04
Agency	:	Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-07-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.394	562	655	19.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.611	578	681	19.0%	Satisfactory	Satisfactory

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-01-02** **Date: 05-07-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC road at Allalsandra cross roads in ward No.04
Agency	:	Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	816	816	5.4	94.6	90-100
3	20 mm	6543	7359	49.1	50.9	30-70
4	10 mm	4357	11716	78.1	21.9	10-35
5	4.75 mm	2721	14437	96.2	3.8	0-5
6	Pan	563	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-01-02** **Date: 05-07-2017**

Sample ID No : 2017-07-01-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.58	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.25	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-01-02** **Date: 05-07-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC road at Allalsandra cross roads in ward No.04
Agency	:	Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	72	72	1.44	98.56	90-100
3	10 mm	3602	3674	73.48	26.52	25-55
4	4.75 mm	1221	4895	97.9	2.1	0-10
5	Pan	105	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-01-02** **Date: 05-07-2017**

Sample ID No : 2017-07-01-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-07-01-02**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC road at Allalsandra cross roads in ward No.04
Agency	:	Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	01-07-17
Total weight taken	:	1000 grams

Date: 05-07-17

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	180	195	19.5	80.5	60-95	75-100	85-100	95-100
4	1.18 mm	351	546	54.6	45.4	30-70	55-90	75-100	90-100
5	600 micron	246	792	79.2	20.8	15-34	35-59	60-79	80-100
6	300 micron	53	845	84.5	15.5	5-20	8-30	12-40	15-50
7	150 micron	66	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone I

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-01-02**

Sample ID No : 2017-07-01-02/03

Date: 05-07-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.01	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-10-02 **Date: 15-07-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC road at Allalsandra cross roads in ward No.04

Agency : Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/84/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-17

Sample ID No : 2017-07-10-02/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	08/07/2017	15/07/2017	150.13 X 150.54 X 150.66	22601	8.229	386.5	17.1	16.9
2	Drain Concrete	M20	08/07/2017	15/07/2017	150.89 X 150.98 X 150.99	22781	8.227	375.9	16.5	
3	Drain Concrete	M20	08/07/2017	15/07/2017	150.15 X 150.17 X 150.33	22548	8.321	387.8	17.2	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-17-01 **Date: 20-07-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC road at Allalsandra cross roads in ward No.04

Agency : Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/84/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-17

Sample ID No : 2017-07-17-01/01

Customer ID : C.C Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Road	M30	13/07/2017	20/07/2017	149.65 X 148.40 X 150.42	22208	8.135	553.0	24.9	25.5
2	C.C Road	M30	13/07/2017	20/07/2017	151.20 X 149.35 X 151.35	22582	8.170	582.6	25.8	
3	C.C Road	M30	13/07/2017	20/07/2017	151.45 X 150.40 X 151.80	22778	8.165	587.7	25.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-17-01** **Date: 21-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC road at Allalsandra cross roads in ward No.04
Agency	:	Sri. K.S. Chowdareddy, No.24A, Maruthinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/84/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-17
Sample ID No	:	2017-07-17-01/02
Customer ID	:	C.C Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	C.C Road	M30	14/07/2017	21/07/2017	151.04 X 151.22 X 149.72	22840	8.108	573.3	25.1	25.1
2	C.C Road	M30	14/07/2017	21/07/2017	151.55 X 150.62 X 150.86	22826	8.176	588.9	25.8	
3	C.C Road	M30	14/07/2017	21/07/2017	150.67 X 150.52 X 150.87	22679	8.116	555.6	24.5	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

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